BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Diploma in Agriculture Pearson BTEC International Level 3 Extended Diploma in Agriculture
Unit number and title	Unit 16: Livestock Nutrition
Learning aim(s)	**A** Investigate the structure of biological molecules and their significance in livestock nutrition **B** Examine the digestive systems of livestock species to allow appropriate nutrition
Assignment title	**Nutrition and Digestion**
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You work on a farm that keeps several types of livestock, including monogastric, ruminant, and avian species. The Farm Manager is taking on new staff for two of the species. They want to make sure that the new staff have a good knowledge and understanding of the nutritional needs of livestock they will be caring for, and why it is important that the correct feed is provided to animals according to the digestive system they have.
Task 1	Produce an illustrated report about biological molecules and appropriate nutrition for **two** species of livestock. The livestock species must be either monogastric, ruminant, or avian. Include information on structure, sources and role within the body for each biological molecule. For each species of livestock, include information on: • structure and function of the digestive system • digestive and absorption of biological molecules within the digestive system • causes and potential treatments for common feeding issues such as nutritional imbalances and digestive system disorders. Conclude your report with a comparison of the nutritional needs and digestive systems of the two livestock species.
Checklist of evidence required	Illustrated report

Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria you must show that you are able to:
A.D1	Review the nutritional importance of biological molecules for maintaining normal function in livestock.
B.D1	Evaluate digestive system adaptations and common feeding issues in livestock species.
A.M1	Assess the structure and functions of biological molecules in livestock nutrition.
B.M2	Compare the digestion and absorption of biological molecules in the digestive systems of livestock species.
A.P1	Explain the structure and features of biological molecules in livestock nutrition.
A.P2	Discuss the role and sources of biological molecules in livestock nutrition.
B.P3	Explain the digestion and absorption of biological molecules.
B.P4	Explain the structures of digestive systems in livestock species and common feeding issues.

Sources of information to support you with this Assignment	**Books** Dryden, G (2008) *Animal Nutrition Science,* CABI Publishing, ISBN13 978 1845934125 Jurgens, M. H., (2018) *Animal Feeding and Nutrition*, Kendall/Hunt Publishing Company, ISBN13 978 0757591136 Phillips, C.J.C (2016) *Nutrition and the Welfare of Farm Animals,* Springer, ISBN13: 978 3319273549 Underwood, E (1999) *The Mineral Nutrition of Livestock*, CABI Publishing, ISBN13 978 0851991283 **Journals/Magazines** *Journal of Applied Animal Nutrition* *Animal Nutrition* *Beef Farmer* *Dairy Farmer* *Pig Progress* *Poultry World* *Farmers Weekly* **Websites** extension.msstate.edu/agriculture/livestock pighealth.com